On the Importance of Broadband Deployment

Prepared for the Federal Communications Commission by the Optoelectronics Industry Development Association (OIDA) January, 2003

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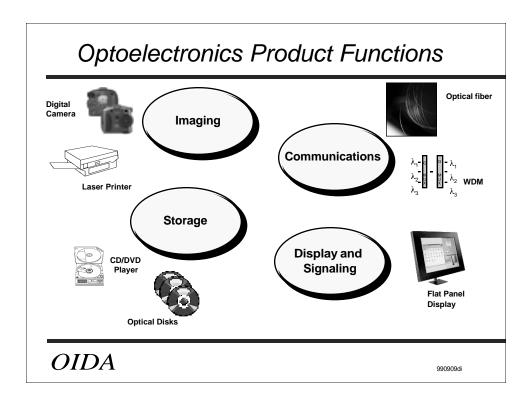
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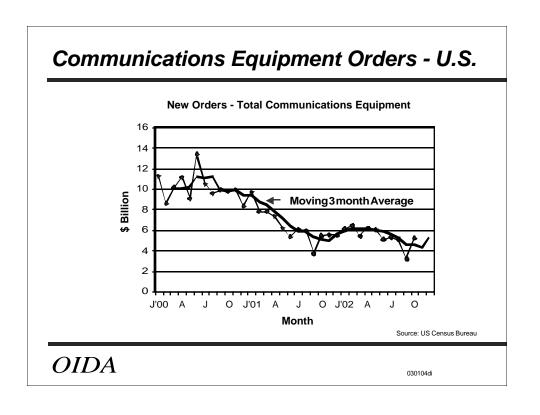
The Communication Value Chain

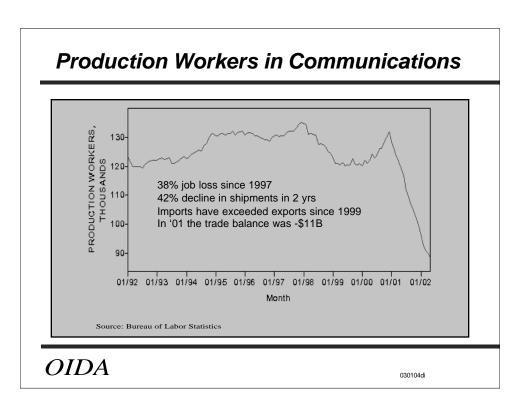
- Service/content providers
 - n e.g. Time Warner-AOL, Disney, etc.
- 2. Carriers

ILECs (Verizon), CLECs (Williams), Long distance (AT&T), Cable TV (Comcast), etc.

- 3. System/equipment
 - e.g. Agilent, Cisco, etc.
- Component/module
 - e.g. Corning, JDS Uniphase, Triquint, etc.
- Materials and process equipment
 - e.g. Applied Materials, KLA-Tencor, etc.

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US Communications Industry

- Carriers have no incentive to deploy
- Telecom equipment revenues are decreasing
- The supply chain is not investing in R&D
- Many jobs are lost in the US
- Manufacturing moves abroad
- Foreign manufacturers penetrate US markets

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"Broadband" in the U. S.

Modest Performance

(>200 kbs, instead of 10-100 mbs)

Sparsely deployed

(The carriers have no incentive to deploy)

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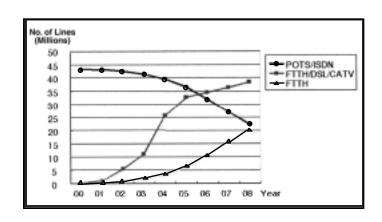
Broadband Outside the US

- National initiatives long range goals
 - ► Japan
 - ► Korea
 - ➤ Sweden
 - ➤ Singapore
- Preparations field trials
 - ► China
 - ➤ Netherlands

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The Broadband Market Trend in Japan



Source: InfoCom Research, Inc, H. Shinohara, NTT

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Goal for Foreign Broadband Initiatives

Country	Mb	Penetration	Year
Korea	20	70%	2005
Japan	10-100	50%	2008
Sweden	5	98%	2005
USA	10 - 100	?	?

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Recommendations

- Generate regulatory framework for a national initiative
- Declare services provided over true broadband facilities to be an interstate service solely regulated by the FCC
- Do not regulate services provided over true broadband facilities
- Do not apply the unbundling obligations to the true broadband facilities, such as FTTH
- Permit ILECs to retire or sell their existing copper plant where FTTH is deployed

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